

## INDEX

Synonyms are printed in *italics*; new names in **bold-face** type.

- ABBE, ERNST C. and SAX, KARL, Chromosome numbers and the anatomy of the secondary xylem in the Oleaceae, 37, 2 figs.
- Acacia Cavaleriei*, 321  
— *Delavayi*, 321
- Acalypha grandis*, 92  
— *neo-caledonica*, 92  
— sp., 93
- Acanthopanax stenophyllus dilatatus*, 339
- Acanthus ilicifolius*, 26
- Achyranthes aspera*, 81
- Acrostichum lonchophorum*, 120
- Adiantum aneitense*, 123  
— *diaphanum*, 123
- Agathis obtusa*, 117
- Ageratum conyzoides*, 10
- Albizia Esquirolii*, 321  
— *kalkora*, 321
- Aleurites moluccana*, 91
- Alphandia furfuracea*, 92
- Alpinia Blumei*, 110
- Alstonia villosa calvescens*, 19
- Alyxia efatensis*, 18  
— sp. nov.?, 18
- Amelanchier asiatica*, 308
- AMES, OAKES, A new genus of the Orchidaceae from the New Hebrides, 142  
—, Contribution to the flora of the New Hebrides and Santa Cruz Islands, Orchids collected by S. F. Kajewski in 1928 and 1929, 127
- Anatomy of the secondary xylem in the Oleaceae, Chromosome numbers and the, 37, 2 figs.
- ANDERSON, EDGAR, and DIEHL, D. G., Contributions to the Tradescantia problem, 213, 3 figs., pl. 45
- Apios Mairei*, 330
- Appendicula reflexa*, 109, 138  
— **vanikorensis**, 138
- Arnold Arboretum, Bibliography of the published writings of the staff and students of the, 1931–1932, 458
- Arnold Arboretum during the fiscal year ended June 30, 1932, The, 447
- Arnold Arboretum expedition to North-western China and Northeastern Tibet, Enumeration of the ligneous plants collected by J. F. Rock on the, 385
- Arnold Arboretum, New species, varieties and combinations from the herbarium and the collections of the, 337
- Arnold Arboretum, 1932–33, The Staff of, 462
- Artocarpus incisa*, 106
- Ascarina lanceolata*, 82
- Asclepias curassavica*, 20
- Asplenioopsis decipiens*, 122
- Asplenium affine*, 121  
— *amboinense*, 121  
— *brachycarpum*, 121  
— *laserpitiiifolium*, 121  
— *nidus*, 122  
— sp., 122
- Aster incisus*, 406  
— *Limprichtii*, 406  
— *poliothamnus*, 406
- Athyrium accedens*, 121  
— sp., 121
- Badhamia foliicola*, 274  
— *magna*, 274  
— *rubiginosa*, 274  
— *utricularis*, 274
- Badusa occidentalis*, 3
- Balantium an B. dubium?*, 119  
— *stramineum*, 119
- Bassia bawun*, 16  
— **Kajewskii**, 15  
— *obovata*, 16  
— sp., 16
- Bauhinia altefissa*, 322  
— *aurea*, 322  
— *Cavaleriei*, 321  
— *densiflora*, 321  
— *Rocheri*, 321  
— *touranensis*, 321  
— *yunnanensis*, 322

- Beaumontia grandiflora*, Diaxydary laticiferous cells of, 35, pl. 41
- Beilschmiedia* sp., 84
- Bibliography of the published writings of the staff and students of the Arnold Arboretum, July 1, 1931-June 30, 1932, 458
- Bischofia javanica*, 91
- BLAKELY, W. F., A previously undescribed variety of *Loranthus vitellinus* F. v. Muell. from North Queensland, 298
- Blechnum gibbum*, 122
- *opacum*, 122
- *Patersoni*, 122
- Blumea densiflora*, 10
- Boehmeria anisoneura*, 107
- *platyphylla*, 107
- Brachiaria ambigua*, 116
- *subquadriparia*, 116
- Brefeldia maxima*, 279
- Bulbophyllum* sp., 140
- Calanthe Vaupeliana*, 139
- Calpidia excelsa*, 81
- Calycosia Milnei*, 8
- sp., 9
- Campilum lonchophorum**, 120
- Campsis chinensis* × *radicans*, 340
- *hybrida*, 340
- *radicans* × *chinensis*, 340
- **Tagliabuana**, 340
- Campylotropis polyantha*, 329
- *velutina*, 329
- Canthium Labordei*, 340
- Caragana Franchetiana*, 326
- *Komarovi*, 326
- Carpinus Chowii*, 333
- **Chuniana**, 334
- Caryopteris incana*, 405
- *Mastacanthus*, 405
- *tangutica*, 405
- Casearia Melistaurum*, 126
- Casuarina equisetifolia*, 109
- Celtis paniculata*, 95
- Cenchrus calyculatus*, 116
- Centotheca latifolia*, 117
- Ceratostylis kaniensis*, 138
- *subulata*, 109, 138
- Cerbera manghas*, 18
- Chambeyronia* sp., 113, fig. 1: 1, 2
- Cheilanthes hirsuta*, 122
- Chenopodium ? suffruticosum*, 338
- CHESTER, KENNETH S., A comparative study of three *Phytophthora* diseases of Lilac and of their pathogens, 232, diag., pl. 46, 47
- , Studies on the precipitin reaction in plants. I. The specificity of the normal precipitin reaction, 52, pl. 42
- , Studies on the precipitin reaction in plants. II. Preliminary report on the nature of the "Normal precipitin reaction," 285
- Chinese plants, Notes on some, 297
- Chinese species of *Jasminum*, Synopsis of, 145
- Chomelia banksiana*, 4
- sp., 5
- Chromosome numbers and the anatomy of the secondary xylem in the Oleaceae, 37, 2 figs.
- Chromosome numbers in the genus *Tilia*, 49, 4 figs.
- Chromosome pairing in *Larix* species, 368, fig., pl. 51
- Chromosome relationships in the Pomoideae, 363, pl. 50
- Cladium Milnei*, 115
- Cladrastis Fauriei*, 323
- Claoxylon insulanum*, 92
- *taitense neo-ebudicum*, 92
- Cleidion angustifolium*, 93
- *Vieillardii acutifolium*, 93
- Clematis aethusifolia*, 404
- *brevicaudata*, 404
- *glauca akebioides phaeantha*, 404
- *tangutica obtusiuscula*, 404
- Clerodendron inerme*, 29
- Codiaeum variegatum moluccanum*, 91
- — *pictum*, 91
- Coelogyne asperata*, 129
- *lamellata*, 129
- Coffea arabica*, 8
- Coix lacryma-jobi*, 117
- Coleus scutellarioides*, 29
- Collector's notebook, Leaves from a, 417, fig.
- Comparative study of three *Phytophthora* diseases of Lilac and of their pathogens, 232, diag., pl. 46, 47
- Contribution to the flora of the New Hebrides, plants collected by S. F.

- Kajewski in 1928 and 1929, 1, 81, 3 figs., pl. 43
- Contribution to the flora of the New Hebrides and Santa Cruz Islands, Orchids collected by S. F. Kajewski in 1928 and 1929, 127
- Contributions to the Tradescantia problem, 213, 3 figs., pl. 45
- COPELAND, E. B., Pteridophyta, 118
- Cordia Myxa*, 23  
— *subcordata*, 126
- Cornus*, Cytological studies of, 410, pl. 53
- Corymborchis veratrifolia*, 109, 127
- Cotoneaster Bodinieri*, 309  
— *Franchetii*, 302  
— *glaucophylla*, 302  
— *horizontalis*, 302  
— *Mairei*, 302  
— — *albiflora*, 302
- Couthovia neo-ebudica*, 23
- Crataegus* problem, The, 342
- Crataegus Argyi*, 303  
— *Bodinieri*, 302  
— *Cavaleriei*, 305, 309  
— *Chantcha*, 303  
— *coreanus*, 303  
— *cuneata*, 303  
— *Henryi*, 302  
— *leonensis*, 422, fig.  
— *limnophila*, 420  
— *pinnatifida*, 303  
— — *psilosa*, 303  
— *pyracanthoides limnophila*, 420  
— *scabrifolia*, 302  
— *stephanostyla*, 303  
— *Taquetii*, 309
- Crinum pedunculatum*, 110
- Crossing over, The cytological mechanism of, 180, 11 diag., fig., pl. 44
- Croton insularis*, 91
- Cryptocarya Wilsonii*, 84  
— sp., 84
- Cryptococcus fagi* (Baer) Dougl., the insect factor in a menacing disease of Beech, the occurrence in the United States of, 75
- Cupia mollissima*, 297
- CURRIE, MARY E. and HOWARD, FRANK L., Parasitism of myxomycete plasmodia on the sporophores of Hymenomycetes, 270, 2 figs., pl. 48, 49
- Cyathea laciniata*, 119  
— *leucolepis*, 119  
— *medullaris*, 119
- Cycas circinalis*, 118
- Cyclophorus acrostichoides*, 124
- Cypholophus macrocephalus*, 108
- Cyphophoenix* sp. nov.?, 113, fig. 1: 3, 4
- Cyrtandra aneiteensis*, 25  
— *cymosa*, 25  
— — *Kajewskii*, 25
- Cytological laboratory, The Arnold Arboretum during the fiscal year ended June 30, 1932, 450
- Cytological mechanism of crossing over, 180, 11 diag., fig., pl. 44
- Cytological studies of *Cornus*, 410, pl. 53
- Dalbergia Cavaleriei*, 330  
— *Esquirolii*, 329
- Datura arborea*, 25
- Davallia solida*, 120
- Dendrobium Goldfinchii*, 131  
— *Kajewskii*, 131  
— *macranthum*, 132  
— *macrophyllum*, 133  
— *separatum*, 133  
— *vanikorense*, 134  
— (§ Aporum) sp., 109  
— (§ Aporum) sp., 131
- Dennstaedtia samoensis*, 121
- DERMEN, HAIG, Chromosome numbers in the genus *Tilia*, 49, 4 figs.  
— — —, Cytological studies of *Cornus*, 410, pl. 53
- Derris* sp., 330
- Desmodium barbigerum*, 328  
— *Bodinieri*, 326  
— *Cavaleriei*, 328  
— *cinerascens*, 327  
— *concinnum*, 328  
— *Esquirolii*, 327  
— *gangeticum*, 328  
— *Griffithianum*, 327  
— *gyroides*, 327  
— *oxalidifolium*, 327  
— *racemosum*, 326

- Dianella ensifolia*, 112  
*Diaxylary laticiferous cells of Beau-montia grandiflora*, 35, pl. 41  
**DIEHL, D. G. and ANDERSON, EDGAR,**  
 Contributions to the *Tradescantia*  
 problem, 213, 3 figs., pl. 45  
*Dioscorea bulbifera*, 111  
 — *nummularia*, 111  
*Diospyros Chaffanjoni*, 302  
*Dipteris conjugata*, 120  
*Docynia Delavayi*, 309  
 — *docynioides*, 310  
 — **rufifolia**, 310  
*Dolicholobium aneityense*, 2  
*Donax arundastrum*, 110  
*Dracaena* sp., 112  
*Drynaria rigidula*, 124  
*Dryopteris rubrinervis*, 119  
 — *urophylla*, 119  
 — sp., 119, 120  
*Dumasia villosa*, 330  
*Dunbaria pulchra*, 332  
*Earina Brousmichei*, 109, 138  
**EHRLICH, JOHN**, The occurrence in the  
 United States of *Cryptococcus fagi*  
 (Baer) Dougl., the insect factor in  
 a menacing disease of Beech, 75  
*Elatostema macrophyllum*, 106  
*Elytranthe banksiana*, 88  
*Endiandra aneityensis*, 84  
 Enumeration of the ligneous plants  
 collected by J. F. Rock on the Arn-old Arboretum expedition to North-western China and Northeastern  
 Tibet, 385  
*Ephedra monosperma*, 385  
*Epipremnum pinnatum*, 114  
*Eria Kajewskii*, 109, 135  
 — **vanikorensis**, 135  
 Ericaceae from northwest America,  
*Kalmiopsis*, a new genus of, 30, pl.  
 40  
*Eriobotrya Brackloii atrichophylla*, 307  
 — **Cavaleriei**, 307  
 — — **Brackloii**, 308  
 — *pseudo-Raphiolepis*, 308  
 — *Seguini*, 308  
*Ervatamia orientalis*, 20  
*Erythrina Mairei*, 330  
*Euphorbia obliqua*, 90  
*Excoecaria Agallocha*, 95  
*Fagara volubilis*, 463  
*Fagara volubilis pubescens*, 463  
*Fagraea* sp., 22  
*Faradaya neo-ebudica*, 28  
*Ficus acorrhyncha*, 98  
 — *aspera*, 101  
 — *austro-caledonica*, 99  
 — *casearia*, 106  
 — *ciliata*, 101  
 — *copiosa*, 102  
 — *Decaisneana*, 96  
 — **glandifera**, 99  
 — *granatum*, 100  
 — **Kajewskii**, 103  
 — *Moseleyana*, 106  
 — **neo-ebudarum**, 97  
 — *obliqua*, 101  
 — *philippinensis sessilis*, 96  
 — *prolixa*, 101  
 — *prolixoides*, 101  
 — *septica*, 106  
 — **trichoneura**, 104  
 — *verrucosa*, 106  
*Fimbristylis communis*, 115  
*Flüggea suffruticosa*, 338  
*Fontainea Pancheri*, 92  
*Fraxinus profunda Ashei*, 417  
*Freycinetia tannaensis*, 114, pl. 43  
*Fuligo septica*, 278  
*Gardenia tannaensis*, 5  
 — sp., 5, 6  
*Geblera suffruticosa*, 338  
*Geitonoplesium cymosum*, 111  
*Geniostoma rupestris*, 22  
*Gleichenia Brackenridgei*, 124  
 — *linearis*, 124  
 — *oceanica*, 124  
*Glochidion tannaense*, 90  
**GOERZ, R.**, *Salix*, 387  
*Grevillea elaeocarpifolia*, 87  
*Guettarda Kajewskii*, 6  
 — *speciosa*, 6  
 — sp., 7  
**GUILLAUMIN, A.**, Contribution to the  
 flora of the New Hebrides, plants  
 collected by S. F. Kajewski in 1928  
 and 1929, 1, 81, 3 figs., pl. 43  
*Hamamelis vernalis tomentella*, 436  
 — — *tomentella*, 436  
*Hedycaria neo-ebudica*, 83  
 — sp. nov.?, 83  
*Hedysarum multijugum*, 405  
*Hemicyclea Deplanchei*, 90

- Hemigraphis reptans, 26  
 Hemitrichia clavata, 279  
 Herbarium, The Arnold Arboretum during the fiscal year ended June 30, 1932, 451  
 Heritiera littoralis, 126  
 Hernandia cordigera, 86  
 — peltata, 86  
 Hiptage, *Cavaleriei*, 307  
 — *Esquirolii*, 307  
 HITCHCOCK, A. S., Gramineae, 116  
 Homalanthus **ebracteatus**, 94  
 — longipes, 94  
 — nutans var., 94  
 HOWARD, FRANK L. and CURRIE, MARY E., Parasitism of myxomycete plasmodia on fungous mycelia, 438, pl. 54  
 —, Parasitism of myxomycete plasmodia on the sporophores of Hymenomycetes, 270, 2 figs., pl. 48, 49  
 Hoya australis, 21  
 HU, H. H., Notulae systematicae ad floram sinensem IV, 333  
 Humata pusilla, 120  
 Hydrangea Bretschneideri, 405  
 — Chungii, 297  
 Hymenolepis mucronata, 123  
 Hymenomycetes, Parasitism of myxomycete plasmodia on the sporophores of, 270, 2 figs., pl. 48, 49  
 Hymenophyllum formosum, 118  
 Indigofera atropurpurea, 325  
 — *Bodinieri*, 323  
 — *Cavaleriei*, 325  
 — *Craibiana*, 325  
 — *Dosua stachyodes*, 323  
 — *Esquirolii*, 324  
 — *Mairei*, 323  
 — *reticulata*, 325  
 — *stachyodes*, 323  
 — *szechuensis*, 325  
 — *Thirionni*, 330  
 — *Vanioti*, 325  
 — *Vanioti*, 324  
 Ipomoea congesta, 24  
 — denticulata, 24  
 — pes-caprae, 24  
 — turpethum, 24  
 Isachne distichophylla, 116  
 Ixora **aneityensis**, 7  
 Jasminum, Synopsis of the Chinese species of, 145  
 Jasminum *affine*, 160  
 — *amplexicaule*, 173  
 — — **elegans**, 174  
 — *anastomosans*, 169  
 — *angulare*, 153  
 — *Argyi*, 147  
 — *aristatum*, 174  
 — *Beesianum*, 168  
 — *Beesianum* × *officinale* *grandiflorum*, 162  
 — *bicorollatum*, 171  
 — *bignoniaceum*, 150  
 — *Blinii*, 163  
 — *Bodinieri*, 159  
 — *chrysanthemum*, 150  
 — *coarctatum*, 173  
 — *coffeinum*, 165  
 — *Delafieldii*, 163  
 — *Delavayi*, 168  
 — *didymum*, 17  
 — *discolor*, 156  
 — *dispermum*, 164  
 — *dumicolum*, 166  
 — *Dunnianum*, 158  
 — *Esquirolii*, 173  
 — *floridum*, 147  
 — — *spinescens*, 147  
 — *fragrans*, 171  
 — *Giraldii*, 148  
 — *grandiflorum*, 161  
 — *heterophyllum glabricorymbosum*, 149  
 — — **subhumile**, 149  
 — *Heyneanum*, 172  
 — *humile*, 150  
 — *inodorum*, 150  
 — *inornatum*, 167  
 — *lanceolarium*, 156, 463  
 — — *puberulum*, 158, 463  
 — *Mairei*, 150  
 — — *siderophyllum*, 150  
 — *Mesnyi*, 152  
 — *microcalyx*, 167  
 — *multiflorum*, 172  
 — *nervosum*, 169  
 — *nintoooides*, 171  
 — *nudiflorum*, 153  
 — — *aureum*, 154  
 — — **pulvinatum**, 154  
 — — *variegatum*, 154

- Jasminum** *odoratum*, 171  
 — *officinale*, 160  
 — — **grandiflorum**, 161  
 — — *grandiflorum*, 161  
 — — *grandiflorum* × *Beesianum*, 162  
 — *pachyphyllum*, 156  
 — *paniculatum*, 156  
 — *pentaneurum*, 167  
 — *polyanthum*, 163  
 — *Prainii*, 167  
 — *primulinum*, 152  
 — *pubescens*, 171, 173  
 — *pulvinatum*, 154  
 — *quadrifolium*, 172  
 — *quinqueflorum*, 172  
 — *quinquenerve*, 164  
 — *reticulatum*, 173  
 — *revolutum*, 150  
 — *sambac*, 171  
 — *sambuc*, 172  
 — *scandens*, 174  
 — *Seguinii*, 165  
 — *Schneideri*, 166  
 — *Sieboldianum*, 153  
 — *simplicifolium*, 17  
 — *sinense*, 159  
 — *stephanense*, 162  
 — *subhumile*, 149  
 — *subulatum*, 147  
 — *taliense*, 165  
 — *tsinlingense*, 148  
 — *undulatum*, 172, 174  
 — — *elegans*, 175  
 — *urophyllum*, 154  
 — — *Henryi*, 155  
 — — *Wilsonii*, 155  
 — *Valbrayi*, 168  
 — *violascens*, 168  
 — *viminale*, 160  
 — *vulgatum*, 160  
 — *Wallichianum*, 150  
 — *Wardii*, 168  
 — *Zambac*, 171  
**Kajewski**, S. F., Contribution to the flora of the New Hebrides, plants collected in 1928 and 1929, 1, 81, 3 figs., pl. 43  
 — — —, Contribution to the flora of the New Hebrides and Santa Cruz Islands, Orchids collected in 1928 and 1929 by, 127  
**Kajewskia** *aneityensis*, 113, fig. 2  
**Kalmiopsis**, a new genus of Ericaceae from northwest America, 30, pl. 40  
**Kalmiopsis**, 31  
 — **Leachiana**, 32, pl. 40  
**Kermadecia** *lutea*, 86  
**Kobuski**, CLARENCE E., Synopsis of the Chinese species of *Jasminum*, 145  
 — — —, and REHDER, ALFRED, Enumeration of the ligneous plants collected by J. F. Rock on the Arnold Arboretum expedition to Northwestern China and Northeastern Tibet, 385  
**Kyllingia** *monocephala*, 115  
**Lamproderma** sp., 279  
**Laportea** *crenulata*, 106  
**Larix** species, Chromosome pairing in, 368, fig., pl. 51  
**Lasianthus** *Labordei*, 340  
 Leaves from a collector's note book, 417, fig.  
**Leocarpus** *fragilis*, 279  
**Lepidosperma** sp., 115  
**Leptopteris** *Wilkesiana*, 125  
**Lespedeza** *Blinii*, 329  
 — *daurica*, 328  
 — *dichromocalyx*, 329  
 — *Fauriei*, 328  
 — *Forrestii*, 328  
 — *Monnoyeri*, 328  
 — *Pampaninii*, 328  
 — *striata*, 329  
 — *trichocarpa*, 328  
**Leucopogon** *cymbulae*, 11  
**Leucosyne** *capitellata*, 108  
**Léveillé**, notes on the ligneous plants from eastern Asia, described by, 299  
 Library, The Arnold Arboretum during the fiscal year ended June 30, 1932, 453  
 Ligneous plants described by Léveillé from eastern Asia, Notes on, 299  
**Lilac**, A comparative study of three *Phytophthora* diseases of, and of their pathogens, 232, diag., pl. 46, 47  
**Lindbladia** *effusa*, 279  
**Lindsaya** *decomposita*, 121  
**Liparis** *condylobulbon*, 109, 129  
 — *confusa*, 129  
**Litsea** *aneityensis*, 85  
 — *tannaensis*, 85  
**Lonicera** *Cavaleriei*, 159

- Lonicera microphylla*, 405  
 — *Rehderi*, 159
- Loranthus vitellinus* F. v. Muell. from north Queensland, A previously undescribed variety of, 298
- Loranthus aneityensis*, 88  
 — **ficivorus**, 89  
 — *vitellinus inflata*, 298
- Lycogala epidendrum*, 279
- Lycopodium cernuum*, 125  
 — *oceanianum*, 125  
 — *Phlegmaria*, 125  
 — *squarrosum*, 126
- Lygodium reticulatum*, 125
- Maackia Fauriei*, 323
- Maba buxifolia*, 16
- Macaranga Tanarius*, 93  
 — sp., 93, 94
- Maesa efatensis*, 12
- Malaxis lunata*, 129  
 — **neo-ebudica**, 109, 128  
 — *xanthochila*, 109, 128
- Malus docynioides*, 310  
 — *Sieboldii*, 308  
 — *Toringo*, 309
- Manilkara dissecta*, 15
- MATTFELD, J., Compositae, 406
- Mediocalcar vanikorense*, 136
- Meiosis and chiasma formation in *Paeonia suffruticosa*, 375, 2 figs., pl. 52
- Melodinus neo-ebudicus*, 17
- METCALF, FRANKLIN P., Notes on some Chinese plants, 297
- Microglossa salicifolia*, 406
- Microlepia speluncae*, 120
- Microstylis lunata*, 129  
 — *xanthochila*, 129
- Millettia Blinii*, 326  
 — *Bodinieri*, 326  
 — *Cavaleriei*, 329  
 — *Dielsiana*, 326  
 — *Dunniana*, 326  
 — *fragrantissima*, 326  
 — *Gentiliana*, 326
- Mimusops parvifolia*, 14
- Misanthus sinensis*, 117
- Mogorium pubescens*, 173  
 — *Sambac*, 171  
 — *undulatum*, 171
- Morinda citrifolia*, 8  
 — *Forsteri*, 8
- Mucuna Bodinieri*, 330  
 — *cochininchinensis*, 331  
 — *corvina*, 330  
 — *Esquirolii*, 331  
 — *Mairei*, 331  
 — *Martini*, 331  
 — *semperflorens*, 331  
 — *terrens*, 330
- Mussaenda cylindrocarpa*, 4  
 — *frondosa*, 4
- Myristica*, 83
- Myxomycete plasmodia on fungous mycelia, Parasitism of, 438, pl. 54
- Myxomycete plasmodia on the sporophores of Hymenomycetes, Parasitism of, 270, 2 figs., pl. 48, 49
- Nauclea* sp., 1
- Neillia glandulocalyx*, 299  
 — **hypomalaca**, 337  
 — *sinensis glanduligera*, 299  
 — — *glanduligera*, 299
- New Hebrides, Contribution to the flora of the, Plants collected by S. F. Kajewski in 1928 and 1929, 1, 81, 3 figs., pl. 43
- New Hebrides and Santa Cruz Islands, Contribution to the flora of the, Orchids collected by S. F. Kajewski in 1928 and 1929, 127
- New Hebrides, A new genus of the Orchidaceae from the, 142
- New species, varieties and combinations from the herbarium and the collections of the Arnold Arboretum, 337
- Notes on some Chinese plants, 297
- Notes on the ligneous plants described by Léveillé from eastern Asia, 299
- Notholaena hirsuta*, 122
- Notulae systematicae ad florum sinensem IV*, 333
- Nyctanthes multiflora*, 172  
 — *pubescens*, 172  
 — *Sambac*, 171  
 — *undulatum*, 171
- Occurrence in the United States of *Cryptococcus fagi* (Baer) Dougl., the insect factor in a menacing disease of Beech, 75
- Ochrosia alyxioides*, 18  
 — *elliptica*, 19  
 — *elliptica*, 19

- Ochrosia parviflora, 19  
*Ocirium sanctum*, 29  
*Oldenlandia Crataeogonium*, 4  
 Oleaceae, Chromosome numbers and the anatomy of the secondary xylem in the, 37, 2 figs.  
*Oleandra ciliata*, 120  
*Ophioglossum pendulum*, 125  
*Oplismenus compositus*, 116  
 Orchidaceae from the New Hebrides, A new genus of the, 142  
 Orchids collected by S. F. Kajewski in 1928 and 1929, Contribution to the flora of the New Hebrides and Santa Cruz Islands, 127  
*Ormosia Esquirolii*, 322  
*Osyris alba*, 338  
*Paeonia suffruticosa*, Meiosis and chiasma formation in, 375, 2 figs., pl. 52  
*Palaquium neo-ebudicum*, 15  
 PALMER, ERNEST J., Leaves from a Collector's note book, 417, fig.  
 —, The *Crataegus* problem, 342  
*Pandanus Cominsii*, 114  
 Parasitism of myxomycete plasmodia on fungous mycelia, 438, pl. 54  
 Parasitism of myxomycete plasmodia on the sporophores of Hymenomycetes, 270, 2 figs., pl. 48, 49  
*Parsonia neo-ebudica*, 20  
 Pathological Laboratory, The Arnold Arboretum during the fiscal year ended June 30, 1932, 448  
*Pavetta opulina*, 7  
 — *sambucina*, 8  
*Peperomia leptostachyoides*, 82  
*Pertya discolor*, 409  
 — *sinensis*, 409  
*Pharnaceum ? suffruticosum*, 338  
*Pholidota imbricata*, 130  
*Photinia amphidoxa*, 306  
 — *Beauverdiana*, 305  
 — *Bodinieri*, 307  
 — *Cavaleriei*, 305, 306  
 — *crassifolia*, 306  
 — — *denticulata*, 306  
 — *Mairei*, 307  
 — *parvifolia*, 305  
 — *rosifoliolata*, 302  
 — *rubro-lutea*, 309  
 — *serrulata*, 306  
 — *serrulata*, 307  
*Photinia subumbellata*, 305  
 — *villosa*, 304  
 — — *coreana*, 305  
*Phyllanthus fluggeoides*, 338  
 — *japonicus*, 338  
 — *ramiflorus*, 338  
 — sp. nov.?, 90  
 — sp., 90  
*Physarum flavicomum*, 274  
 — *polycephalum*, 275  
 — *tenerum*, 278  
 — *virescens*, 278  
 Phytophthora diseases of Lilac and of their pathogens, A comparative study of three, 232, diag., pl. 46, 47  
*Piper latifolium*, 82  
 — *methysticum*, 82  
 — *miniatum*, 82  
*Pipturus albidus*, 108  
 — *argenteus*, 108  
 — *repandus*, 108  
*Pirus brunnea*, 304  
 — *Cavaleriei*, 307  
 — *Esquirolii*, 309  
 — *Feddei*, 306  
 — *Koehnei*, 304  
 — *Mairei*, 310  
 — *mokpoensis*, 305  
 — *rufifolia*, 310  
 — *sinensis Maximowicziana*, 304  
 — *spectabilis albescens*, 304  
 — *subcrataegifolia*, 309  
 — *Taqueti*, 308  
 — *Vanioti*, 308  
*Plectranthus Forsteri*, 29  
*Plectronia odorata*, 7  
 — sp., 7  
*Podocarpus cupressinum*, 117  
 — *imbricatus*, 117  
*Polyodium sericeum*, 429  
*Polygonum Auberti*, 404  
 — *minus*, 81  
 — *subsessile*, 82  
*Polypodium blechnoides*, 123  
 — *scolopendria*, 123  
*Polystichum aristatum*, 120  
 Pomoideae, Chromosome relationships in the, 363, pl. 50.  
*Populus cathayana*, 385  
 — *nigra*, 386  
 — — *italica*, 386  
 — *Przewalskii*, 386

- Populus Simonii*, 386  
 — *szechuanica Rockii*, 386  
*Pourthiae villosa brunnea*, 304  
 — — *coreana*, 305  
 — — *typica*, 304  
 Precipitin reaction in plants, Studies on the, I. The specificity of the normal precipitin reactions, 52, pl. 42  
 Precipitin reaction in plants, Studies on, II. Preliminary report on the nature of the "Normal precipitin reaction," 285  
*Premna integrifolia*, 28  
 Previously undescribed variety of *Loranthus vitellinus* F. v. Muell. from north Queensland, A, 298  
*Procris pedunculata*, 107  
*Prosopis Esquirolii*, 322  
*Prunus daemonifuga*, 319  
 — *diamantina*, 321  
 — *discadenia*, 319  
 — *Fauriei*, 320  
 — *japonica Nakaii*, 319  
 — *Maackii diamantina*, 321  
 — *myrtacea*, 319  
 — *Nakaii*, 319  
 — *odontocalyx*, 320  
 — *Padus*, 320  
 — — *seoulensis*, 320  
 — *Persica*, 319  
 — — *lasiocalyx*, 319  
 — — *longistyla*, 319  
 — *pubigera*, 320  
 — *seoulensis*, 320  
 — *Vanioti*, 320  
*Pseuderanthemum laxiflorum*, 26  
 — sp., 26  
*Pseuderia vanikorensis*, 130  
*Pseudomorus Brunoniana*, 96  
*Psilotum complanatum*, 126  
 — *nudum*, 126  
*Psychotria aneityensis*, 9  
 — *nacdado*, 9  
 — sp., 10  
*Pteris comans*, 123  
 — *ensiformis*, 123  
 — *tripartita*, 123  
*Pterolobium punctatum*, 322  
*Pueraria Argyi*, 332  
 — *Bodinieri*, 331  
 — *coerulea*, 332  
 — *Koten*, 331  
*Pueraria Seguini*, 332  
 — *Thunbergiana*, 331  
*Pycreus polystachyus*, 115  
*Pyrus Calleryana*, 310  
 — see also *Pirus*  
*Randia sezitat*, 5  
*Rapanea modesta*, 12  
 — sp., 12  
*Raphiolepis kwangsiensis*, 335  
 — *lanceolata*, 335  
**REHDER, ALFRED**, *Kalmiopsis*, a new genus of Ericaceae from northwest America, 30, pl. 40  
 — — —, New species, varieties and combinations from the herbarium and the collections of the Arnold Arboretum, 337  
 — — —, Notes on the ligneous plants described by Léveillé from eastern Asia, 299  
 — — —, and **KOBUSKI, CLARENCE E.**, Enumeration of the ligneous plants collected by J. F. Rock on the Arnold Arboretum expedition to Northwestern China and Northeastern Tibet, 385  
*Rhododendron Leachianum*, 32  
 — *rufum*, 405  
**Rock, J. F.**, On the Arnold Arboretum expedition to Northwestern China and Northeastern Tibet, Enumeration of the ligneous plants collected by, 385  
*Rodgersia pinnata*, 301  
*Rosa acicularis*, 317  
 — — *Gmelini*, 317  
 — — *Taquetii*, 311, 317  
 — *adenoclada*, 314  
 — *Banksiae*, 315  
 — — *aculeata*, 315  
 — — *albiflora*, 315  
 — — *lutea*, 315  
 — — *luteiflora*, 315  
 — — *subinermis*, 315  
 — *Blinii*, 311  
 — *Bodinieri*, 314  
 — *Brunonii*, 312  
 — *Cavaleriei*, 315  
 — *Chaffanjoni*, 314  
 — *Charbonneauii*, 314  
 — *clavigera*, 312  
 — *Davidi elongata*, 318

- Rosa Duclouxii*, 317  
 — *Esquirolii*, 315  
 — *Fauriei*, 312, 317  
 — *gechouitangensis*, 316  
 — *Gentiliana*, 313  
 — *Gentiliana*, 314  
 — — *adenoclada*, 314  
 — *iocchanensis*, 318  
 — *Korsakoviensis*, 317  
 — *Lebrunei*, 311  
 — *longicuspis*, 314  
 — *Luciae*, 311  
 — *lucidissima*, 316  
 — *macrophylla hypoleuca*, 311  
 — *Mairei*, 319  
 — *Marretii*, 318  
 — *Maximowicziana*, 312  
 — *microcarpa*, 314  
 — *mokanensis*, 310, 311  
 — — *quelpaertensis*, 310  
 — *multiflora adenophora*, 310  
 — — *carnea*, 311  
 — — *cathayensis*, 311  
 — — *microphylla*, 310  
 — — *quelpaertensis*, 310  
 — *Nakaiana*, 310  
 — *odorata*, 316  
 — — *gigantea*, 317  
 — *omeiensis*, 318  
 — *oulengensis*, 316  
 — *Parmentieri*, 318  
 — *quelpaertensis*, 310  
 — *rubrostipullata*, 318  
 — *Rubus*, 312  
 — — *yunnanensis*, 313  
 — *sericea aculeata*, 318  
 — — *eglandulosa*, 318  
 — — *inermis*, 318  
 — *sertata*, 318  
 — *sorbiflora*, 314  
 — *Sorbus*, 318  
 — *Taqueti*, 311, 317  
 — *tongtchouanensis*, 316  
 — *Wichuraiana*, 311  
 — *Willmottiana*, 314  
*Rubus idaeus strigosus*, 405  
*Saccolabium Kajewskii*, 110, 141  
*Salix Alfredi*, 403  
 — *angustifolia*, 399  
 — — *eriocarpa*, 400  
 — *Balfouriana*, 390  
 — *cereifolia*, 393  
*Salix cheilophila*, 400  
 — *Delavayana*, 396  
 — **Delavayana × myrtillacea**, 403  
 — *denticulata*, 390  
 — *dracunculifolia*, 400  
 — *Ernesti*, 389  
 — **Ernesti × opsimantha**, 395  
 — *Faxoniana*, 394  
 — *flabellaris*, 394  
 — — *spathulata*, 394  
 — *hypoleuca kansuensis*, 392  
 — **juparica**, 391  
 — **juparica × sibirica**, 398  
 — *Lindleyana*, 394  
 — **luctuosa × tenella**, 389  
 — **muliensis**, 389  
 — *myrtillacea*, 400  
 — **myrtillacea × Delavayana**, 403  
 — **myrtillacea × Rockii**, 402  
 — **myrtillacea × Wilhelmsiana**, 401  
 — *opsimantha*, 395  
 — **opsimantha × Ernesti**, 395  
 — *oritrepha*, 387  
 — — **tibetica**, 388  
 — *paraplesia*, 387  
 — *plocotricha*, 390  
 — **pseudospissa**, 395  
 — **pseudo-Wallichiana**, 397  
 — *Rehderiana*, 398  
 — — *brevisericina*, 399  
 — **Rockii**, 393  
 — **Rockii × myrtillacea**, 402  
 — *sibirica*, 397  
 — **sibirica × juparica**, 398  
 — *Souliei*, 394  
 — *spathulifolia*, 390  
 — *squarrosa*, 400  
 — *subpycnostachya*, 400  
 — **taoensis**, 401  
 — *tenella*, 389  
 — **tenella × luctuosa**, 389  
 — **tibetica**, 391  
 — *Wallichiana*, 396  
 — *Wilhelmsiana*, 399  
 — **Wilhelmsiana × myrtillacea**, 401  
*Santa Cruz Islands, Contribution to the flora of the New Hebrides and, Orchids collected by S. F. Kajewski in 1928 and 1929*, 127  
*Santalum austro-caledonicum*, 89  
*Sapotacearum gen.?, 16*  
*SAX, HALLY JOLIVETTE, Chromosome*

- pairing in *Larix* species, 368, fig., pl. 51
- SAX, KARL, Chromosome relationships in the Pomoideae, 363, pl. 50
- , The cytological mechanism of crossing over, 180, 11 diag., fig., pl. 44
- , Meiosis and chiasma formation in *Paeonia suffruticosa*, 375, 2 figs., pl. 52
- and ABBE, ERNST C., Chromosome numbers and the anatomy of secondary xylem in the Oleaceae, 37, 2 figs.
- Scaevola cylindrica*, 11
- *frutescens*, 11
- Schizaea dichotoma*, 124
- Securinega fluggeoides*, 338
- *japonica*, 338
- *ramiflora*, 338
- **suffruticosa**, 338
- Selliguea feeioides*, 123
- Sideroxylon aneityense*, 13
- **tannaense**, 14
- sp., 14
- Smilax Oldhami*, 385
- *vitiensis*, 111
- sp., 111
- Sophora Cavaleriei*, 323
- *glauca*, 323
- — *albescens*, 323
- *japonica*, 322
- *Mairei*, 322
- Sorbus Aria Mairei*, 304
- *Hemsleyi*, 304
- *Keissleri*, 304
- *Koehneana*, 303
- *Mairei*, 304
- *Valbrayi*, 303
- Spathoglottis Petri*, 109, 140
- *Vieillardii*, 140
- Sphenomeris chusana*, 122
- Spiraea atemnophylla*, 301
- *Bodinieri*, 301
- — *concolor*, 301
- *Cavaleriei*, 300
- *Esquirolii*, 301
- *Fauriei*, 299
- *fulvescens*, 300
- *holorhodantha*, 301
- *japonica acuminata*, 301
- *Mairei*, 301
- Spiraea Martini*, 300
- *media monbetsusensis*, 299
- *microphylla*, 300
- *ouensanensis*, 300
- *ovalis*, 300
- *pubescens*, 300
- *Veitchii*, 301
- Stachytarpheta indica*, 26
- Stranvaesia Argyi*, 306
- *Davidiana*, 307
- Studies on the precipitin reaction in plants. I. The specificity of the normal precipitin reaction, 52, pl. 42
- Studies on the precipitin reaction in plants. II. Preliminary report on the nature of the "Normal precipitin reaction," 285
- Stylocoryne mollissima*, 297
- SUMMERHAYES, V. S., *Ficus*, 96
- Symplocos aneityensis*, 16
- *Seguini*, 308
- Synopsis of the Chinese species of *Jasminum*, 145
- Syntherisma microbachne*, 116
- Tabernaemontana orientalis*, 20
- Tacca pinnatifida*, 110
- Tanacetum falcatolobatum*, 408
- *Rockii*, 406
- **salicifolium**, 407
- Tapeinidium tenue*, 120
- Tapeinosperma Kajewskii*, 12
- *netor*, 13
- Tarennia incana*, 297
- *mollissima*, 297
- *vestita*, 297
- Tecoma hybrida*, 340
- *intermedia*, 340
- *Tagliabuana*, 340
- Tilia*, Chromosome numbers in the genus, 49, 4 figs.
- Torricellia angulata intermedia*, 336
- *intermedia*, 336
- Tournefortia argentea*, 23
- Tradescantia* problem, Contributions to the, 213, 3 figs., pl. 45
- Tradescantia bracteata*, 216
- *pilosa*, 217
- *reflexa*, 215
- Trema Vieillardii*, 95
- Trichia decipiens*, 279
- Trichochilus**, 142
- **neo-ebudicus**, 142

- Trichomanes Bauerianum, 118  
— Boryanum, 118  
— meifolium, 118  
— sp., 118  
Trifolium ? *polygonum*, 329  
**Trilocularia pedicellata**, 95  
Tylophora aneityensis, 21  
— **tannaensis**, 22  
**Uncaria orientalis**, 1, fig. 4  
**Vaccinium Macgillivrayi**, 11  
— melanocarpum *sericeum*, 429  
— **sericeum**, 429  
**Vandopsis Warocqueana**, 140  
**Vernonia cinerea**, 10  
**Viburnum Komarovii**, 305  
— *parvifolium*, 298  
— **Smithii**, 298  
Vitex Negundo, 27  
— **rapinioides**, 27  
— trifolia, 28  
*Vitis reticulata*, 339  
— Wilsonae, 339  
**Vittaria lineata**, 123  
**Webera mollissima**, 297  
**Wedelia aristata**, 10  
— *biflora*, 10  
**Wikstroemia viridiflora**, 88  
**WOODWORTH**, R. H., *Diaxylary laticiferous cells of Beaumontia grandiflora*, 35, pl. 41  
*Xylophylla ramiflora*, 338  
*Zanthoxylum volubilis*, 463  
**Zingiber zerumbet**, 110

2556-39